Wideband dipole antenna type with a circuit for shaping a match factor.
The ATC S12 antenna covers the avionic VHF band 116-136 MHz.
In common-phase systems the ATC S12 enables build the antenna array with a gain to 6dB and omnidirectional radiation pattern in the azimuth plane.
Duraluminium welded construction is covered with a powder varnish providing a high resistance to atmospheric corrosion.
A small active surface ensures resistance to ice and wind in all environments.
A handle on a back side of antenna enables easy mounting direct at the mast as a single antenna or in antenna arrays using toehold.
Considering a high emission power the antenna is recommended to application in broadcasting centers.
The antenna is supplied with a fiberglass mast length of 3 meters, ensuring an omnidirectional radiation pattern. In this case a grounding cable is located along the mounting mast.
The antenna is DC-grounded and with proper grounding does not require an additional lightning rod.
**ELECTRICAL**

- **Gain (ref. to λ/2 dipole)**: 0,0 dB, 2,15 dBi
- **Radiation pattern**: omnidirectional
- **Impedance**: 50 Ω
- **Antenna type**: λ/2 dipole
- **Maximum power**: 500 W
- **VSWR**: ≤1,5
- **Frequency range**: 116-136 MHz
- **Bandwidth**: 20 Mhz @ SWR <1,5
- **Horizontal radiation pattern code (H-plane)**: 000ND00 (CEPT Recommendation T/R 25-08)
- **Vertical radiation pattern code (E-plane)**: 040DE00 (CEPT Recommendation T/R 25-08)

**MECHANICAL**

- **Connector**: N, 7/16
- **Material**: Aluminium, welded
- **Polarization**: Vertical, horizontal
- **Diameter/length of mounting mast**: 50 / 3000 mm
- **Weight**: 3 ,5 kg without the mounting mast
- **Lightning protection**: DC-grounded
- **Packaging**: 48 months
- **Warranty period**: Carton box, wrap
- **Wind speed**: 200 km/h

**CLIMATIC CONDITIONS**

- **Temperature range**: -40°C ÷ +70°C
- **Humidity**: ≤ 100% at +40°C

![ATC S12 graph](image-url)
Vertical radiation pattern  
Horizontal radiation pattern

Total dimensions of the ATC S12